

Refine Search

Search Results -

Terms	Documents
liposome same (attractant or pheromone)	27

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L3



Search History

 DATE: Wednesday, December 21, 2005 [Printable Copy](#) [Create Case](#)
Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L3</u>	liposome same (attractant or pheromone)	27	<u>L3</u>
<u>L2</u>	L1 and 424/450.ccls.	40	<u>L2</u>
<u>L1</u>	liposome same (fungicide or pesticide or herbicide)	146	<u>L1</u>

END OF SEARCH HISTORY

Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 30 of 40 returned.

☐ 1. Document ID: US 6855296 B1

Using default format because multiple data bases are involved.

L2: Entry 1 of 40

File: USPT

Feb 15, 2005

US-PAT-NO: 6855296

DOCUMENT-IDENTIFIER: US 6855296 B1

TITLE: Method and apparatus for liposome production

DATE-ISSUED: February 15, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baker; Martin T.	Petaluma	CA		
Heriot; William A.	Las Vegas	NV		

US-CL-CURRENT: [422/130](#); [264/4](#), [264/4.1](#), [422/128](#), [422/129](#), [422/135](#), [424/450](#),
[436/174](#), [436/179](#), [436/180](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIND	Drawings
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☐ 2. Document ID: US 6855277 B2

L2: Entry 2 of 40

File: USPT

Feb 15, 2005

US-PAT-NO: 6855277

DOCUMENT-IDENTIFIER: US 6855277 B2

TITLE: Method and apparatus for liposome production

DATE-ISSUED: February 15, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baker; Martin T.	Petaluma	CA		
Heriot; William A.	Las Vegas	NV		

US-CL-CURRENT: [264/4.3](#); [422/128](#), [424/450](#), [425/5](#), [428/402.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	FIND	Drawings
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☐ 3. Document ID: US 6713533 B1

L2: Entry 3 of 40

File: USPT

Mar 30, 2004

US-PAT-NO: 6713533

DOCUMENT-IDENTIFIER: US 6713533 B1

TITLE: Nanocapsules and method of production thereof

DATE-ISSUED: March 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Panzner; Steffen	Halle			DE

US-CL-CURRENT: 523/202; 424/450, 424/451, 524/205, 524/210

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EMMC	Drawings
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☐ 4. Document ID: US 6699499 B1

L2: Entry 4 of 40

File: USPT

Mar 2, 2004

US-PAT-NO: 6699499

DOCUMENT-IDENTIFIER: US 6699499 B1

** See image for Certificate of Correction **

TITLE: Amphiphilic materials and liposome formulations thereof

DATE-ISSUED: March 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aneja; Rajindra	Ithaca	NY		

US-CL-CURRENT: 424/450; 424/1.21, 424/417, 424/9.321, 424/9.51, 424/94.3,
428/402.2, 554/103, 554/227, 554/79, 554/80

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EMMC	Drawings
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☐ 5. Document ID: US 6613352 B2

L2: Entry 5 of 40

File: USPT

Sep 2, 2003

US-PAT-NO: 6613352

DOCUMENT-IDENTIFIER: US 6613352 B2

TITLE: Low-rigidity liposomal formulation

DATE-ISSUED: September 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lagace; Jacqueline	St-Laurent			CA
Beaulac; Christian	Yamachiche			CA
Clement-Major; Sebastien	St.-Lambert			CA

US-CL-CURRENT: [424/450](#); [264/4.1](#), [264/4.3](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Drawings
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☐ 6. Document ID: US 6534018 B1

L2: Entry 6 of 40

File: USPT

Mar 18, 2003

US-PAT-NO: 6534018

DOCUMENT-IDENTIFIER: US 6534018 B1

TITLE: Method and apparatus for liposome production

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baker; Martin T.	Petaluma	CA		
Heriot; William A.	Las Vegas	NV		

US-CL-CURRENT: [422/128](#); [264/4.3](#), [424/450](#), [425/5](#), [428/402.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Drawings
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☐ 7. Document ID: US 6447800 B2

L2: Entry 7 of 40

File: USPT

Sep 10, 2002

US-PAT-NO: 6447800

DOCUMENT-IDENTIFIER: US 6447800 B2

TITLE: Method of loading preformed liposomes using ethanol

DATE-ISSUED: September 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hope; Michael J.	Vancouver			CA

US-CL-CURRENT: [424/450](#); [264/4.1](#), [264/4.3](#), [264/4.6](#), [424/1.21](#), [424/417](#), [424/9.321](#), [424/9.51](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Drawings
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☐ 8. Document ID: US 6284267 B1

L2: Entry 8 of 40

File: USPT

Sep 4, 2001

US-PAT-NO: 6284267

DOCUMENT-IDENTIFIER: US 6284267 B1

TITLE: Amphiphilic materials and liposome formulations thereof

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aneja; Rajindra	Ithaca	NY		

US-CL-CURRENT: 424/450; 424/1.21, 424/417, 424/9.321, 424/9.51, 424/94.3,
428/402.2, 436/829, 554/103, 554/227, 554/79, 554/80, 977/DIG.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INDEX	Drawings
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☐ 9. Document ID: US 6183774 B1

L2: Entry 9 of 40

File: USPT

Feb 6, 2001

US-PAT-NO: 6183774

DOCUMENT-IDENTIFIER: US 6183774 B1

TITLE: Stabilizing vitamin A derivatives by encapsulation in lipid vesicles formed with alkylammonium fatty acid salts

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aust; Duncan T.	Ridge	NY		
Ross; Michael A.	Jericho	NY		
Wilmott; James M.	Shoreham	NY		
Hayward; James A.	Stony Brook	NY		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 424/401, 514/724, 514/725

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INDEX	Drawings
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☐ 10. Document ID: US 6147204 A

L2: Entry 10 of 40

File: USPT

Nov 14, 2000

US-PAT-NO: 6147204

DOCUMENT-IDENTIFIER: US 6147204 A

TITLE: Nucleic acid ligand complexes

DATE-ISSUED: November 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gold; Larry	Boulder	CO		
Schmidt; Paul G	Niwot	CO		
Janjic; Nebojsa	Boulder	CO		

US-CL-CURRENT: 536/24.5; 424/450, 435/6, 435/91.2, 436/6, 536/25.4

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 11. Document ID: US 6132766 A

L2: Entry 11 of 40

File: USPT

Oct 17, 2000

US-PAT-NO: 6132766

DOCUMENT-IDENTIFIER: US 6132766 A

**** See image for Certificate of Correction ****

TITLE: Multivesicular liposomes with controlled release of encapsulated biologically active substances

DATE-ISSUED: October 17, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sankaram; Mantripragada Bhima	San Diego	CA		
Kim; Sinil	Solana Beach	CA		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 264/4.6, 424/417, 424/DIG.8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 12. Document ID: US 6106858 A

L2: Entry 12 of 40

File: USPT

Aug 22, 2000

US-PAT-NO: 6106858

DOCUMENT-IDENTIFIER: US 6106858 A

**** See image for Certificate of Correction ****

TITLE: Modulation of drug loading in multivesicular liposomes

DATE-ISSUED: August 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Ye; Qiang	San Diego	CA
Katre; Nandini	Solana Beach	CA
Sankaram; Mantripragada	San Diego	CA

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw D.
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☐ 13. Document ID: US 6071535 A

L2: Entry 13 of 40

File: USPT

Jun 6, 2000

US-PAT-NO: 6071535

DOCUMENT-IDENTIFIER: US 6071535 A

TITLE: Lipid vesicles formed with alkylammonium fatty acid salts

DATE-ISSUED: June 6, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hayward; James A.	Stony Brook	NY		
Watkins; David C.	Port Jefferson	NY		
Aust; Duncan T.	Ridge	NY		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 424/401, 424/417, 424/70.1, 424/94.3,
514/880, 514/881

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw D.
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☐ 14. Document ID: US 6071534 A

L2: Entry 14 of 40

File: USPT

Jun 6, 2000

US-PAT-NO: 6071534

DOCUMENT-IDENTIFIER: US 6071534 A

TITLE: Multivesicular liposomes with controlled release of active agents
encapsulated in the presence of a hydrochloride

DATE-ISSUED: June 6, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Sinil	Solana Beach	CA		
Howell; Stephen B.	Del Mar	CA		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 264/4.6, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw D.
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☐ 15. Document ID: US 6011020 A

L2: Entry 15 of 40

File: USPT

Jan 4, 2000

US-PAT-NO: 6011020

DOCUMENT-IDENTIFIER: US 6011020 A

TITLE: Nucleic acid ligand complexes

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gold; Larry	Boulder	CO		
Schmidt; Paul G.	San Marino	CA		
Janjic; Nebojsa	Boulder	CO		

US-CL-CURRENT: 514/44; 424/1.21, 424/1.73, 424/450, 435/6, 536/22.1, 536/23.1,
536/24.3, 536/24.31

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw D.
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☐ 16. Document ID: US 5993850 A

L2: Entry 16 of 40

File: USPT

Nov 30, 1999

US-PAT-NO: 5993850

DOCUMENT-IDENTIFIER: US 5993850 A

** See image for Certificate of Correction **TITLE: Preparation of multivesicular liposomes for controlled release of
encapsulated biologically active substances

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sankaram; Mantripragada B.	San Diego	CA		
Kim; Sinil	Solana Beach	CA		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 424/417, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMIC	Draw D.
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☐ 17. Document ID: US 5958463 A

L2: Entry 17 of 40

File: USPT

Sep 28, 1999

US-PAT-NO: 5958463

DOCUMENT-IDENTIFIER: US 5958463 A

TITLE: Agricultural pesticide formulations

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Milne; Christopher G.	Greenback	TN		
Shelby, Jr.; Paulus P.	Knoxville	TN		

US-CL-CURRENT: 424/660; 424/195.17, 424/405, 424/450, 424/600, 424/613, 424/615,
424/617, 424/657, 424/658, 424/659, 424/750, 424/757, 424/764, 504/116.1, 504/122,
504/187, 504/193, 504/362, 514/64, 514/77, 514/78, 514/937, 514/964, 514/972,
514/975

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D.
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☐ 18. Document ID: US 5723147 A

L2: Entry 18 of 40

File: USPT

Mar 3, 1998

US-PAT-NO: 5723147

DOCUMENT-IDENTIFIER: US 5723147 A

**** See image for Certificate of Correction ****

TITLE: Multivesicular liposomes having a biologically active substance encapsulated therein in the presence of a hydrochloride

DATE-ISSUED: March 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Sinil	Solana Beach	CA		
Howell; Stephen B.	Del Mar	CA		

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D.
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☐ 19. Document ID: US 5665380 A

L2: Entry 19 of 40

File: USPT

Sep 9, 1997

US-PAT-NO: 5665380

DOCUMENT-IDENTIFIER: US 5665380 A

TITLE: Lipid vesicle fusion as a method of transmitting a biologically active material to a cell

DATE-ISSUED: September 9, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallach; Donald F. H.	Hollis	NH		
Varanelli; Carole	Chester	NH		

US-CL-CURRENT: 424/450; 428/402.2, 514/44, 514/8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EMC	Drawings
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☐ 20. Document ID: US 5653996 A

L2: Entry 20 of 40

File: USPT

Aug 5, 1997

US-PAT-NO: 5653996

DOCUMENT-IDENTIFIER: US 5653996 A

TITLE: Method for preparing liposomes

DATE-ISSUED: August 5, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hsu; Chung C.	Los Altos Hills	CA		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EMC	Drawings
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☐ 21. Document ID: US 5635357 A

L2: Entry 21 of 40

File: USPT

Jun 3, 1997

US-PAT-NO: 5635357

DOCUMENT-IDENTIFIER: US 5635357 A

TITLE: Stabilized microspheres and methods of preparation

DATE-ISSUED: June 3, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Malick; Adrien	Granite	MD		
Feindt; Hans H.	Parkton	MD		

US-CL-CURRENT: 435/7.1; 424/420, 424/450, 427/8, 436/528, 436/531, 436/532

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	EMC	Drawings
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☐ 22. Document ID: US 5628936 A

L2: Entry 22 of 40

File: USPT

May 13, 1997

US-PAT-NO: 5628936

DOCUMENT-IDENTIFIER: US 5628936 A

TITLE: Hybrid paucilamellar lipid vesicles

DATE-ISSUED: May 13, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallach; Donald F. H.	Brookline	MA		

US-CL-CURRENT: 264/4.1; 424/450, 428/402.2, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	RMIC	Drawings
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☐ 23. Document ID: US 5567434 A

L2: Entry 23 of 40

File: USPT

Oct 22, 1996

US-PAT-NO: 5567434

DOCUMENT-IDENTIFIER: US 5567434 A

TITLE: Preparation of liposome and lipid complex compositions

DATE-ISSUED: October 22, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Szoka, Jr.; Francis C.	San Francisco	CA		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 264/4.6, 264/4.7, 424/1.21, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	RMIC	Drawings
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☐ 24. Document ID: US 5549910 A

L2: Entry 24 of 40

File: USPT

Aug 27, 1996

US-PAT-NO: 5549910

DOCUMENT-IDENTIFIER: US 5549910 A

TITLE: Preparation of liposome and lipid complex compositions

DATE-ISSUED: August 27, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Szoka, Jr.; Francis C.	San Francisco	CA		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 264/4.6, 264/4.7, 424/1.21, 424/9.321,
424/9.4, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 25. Document ID: US 5510112 A

L2: Entry 25 of 40

File: USPT

Apr 23, 1996

US-PAT-NO: 5510112

DOCUMENT-IDENTIFIER: US 5510112 A

TITLE: Composition for enhancing the biodegradation of biodegradable organic wastes

DATE-ISSUED: April 23, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gatt; Shimon	Jerusalem			IL
Barenholz; Yechezkel	Jerusalem			IL
Bercovier; Herve	Jerusalem			IL

US-CL-CURRENT: 424/450; 210/610, 435/170, 435/264

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 26. Document ID: US 5474848 A

L2: Entry 26 of 40

File: USPT

Dec 12, 1995

US-PAT-NO: 5474848

DOCUMENT-IDENTIFIER: US 5474848 A

TITLE: Paucilamellar lipid vesicles

DATE-ISSUED: December 12, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallach; Donald F. H.	Brookline	MA		

US-CL-CURRENT: 428/402.2; 106/493, 424/420, 424/450, 436/829, 514/6, 514/963

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 27. Document ID: US 5422120 A

L2: Entry 27 of 40

File: USPT

Jun 6, 1995

US-PAT-NO: 5422120

DOCUMENT-IDENTIFIER: US 5422120 A

TITLE: Heterovesicular liposomes

DATE-ISSUED: June 6, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Sinil	Solana Beach	CA		

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 264/4.6, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INDEX	Grant D.
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☐ 28. Document ID: US 5393527 A

L2: Entry 28 of 40

File: USPT

Feb 28, 1995

US-PAT-NO: 5393527

DOCUMENT-IDENTIFIER: US 5393527 A

TITLE: Stabilized microspheres and methods of preparation

DATE-ISSUED: February 28, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Malick; Adrien	Granite	MD		
Feindt; Hans H.	Parkton	MD		

US-CL-CURRENT: 435/7.1; 424/420, 424/450, 427/8, 436/528, 436/532

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INDEX	Grant D.
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☐ 29. Document ID: US 5277914 A

L2: Entry 29 of 40

File: USPT

Jan 11, 1994

US-PAT-NO: 5277914

DOCUMENT-IDENTIFIER: US 5277914 A

TITLE: Preparation of liposome and lipid complex compositions

DATE-ISSUED: January 11, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Szoka, Jr.; Francis C.	San Francisco	CA		

US-CL-CURRENT: [424/450](#); [264/4.1](#), [264/4.3](#), [264/4.7](#), [424/484](#), [436/829](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FOI/C	Draw D.
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☐ 30. Document ID: US 5234767 A

L2: Entry 30 of 40

File: USPT

Aug 10, 1993

US-PAT-NO: 5234767

DOCUMENT-IDENTIFIER: US 5234767 A

TITLE: Hybrid paucilamellar lipid vesicles

DATE-ISSUED: August 10, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wallach; Donald F. H.	Brookline	MA		

US-CL-CURRENT: [428/402.2](#); [264/4.1](#), [424/450](#), [436/829](#), [514/818](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FOI/C	Draw D.
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[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms

Documents

L1 and (424/450).ccls.

40

Display Format: [Change Format](#)[Previous Page](#)[Next Page](#)[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)[Generate Collection](#)[Print](#)

L2: Entry 30 of 40

File: USPT

Aug 10, 1993

DOCUMENT-IDENTIFIER: US 5234767 A

TITLE: Hybrid paucilamellar lipid vesicles

Detailed Description Text (8):

Hydrophilic materials which can be encapsulated include minerals such as titanium dioxide and silicas, viruses, macromolecules, immunological adjuvants such as muramyl dipeptide, peptide hormones such as insulin, calcitonin and glucagon, hypothalamic peptides, pituitary hormones, growth factors such as angiogenic, epithelial and epidermal growth factors, lymphokines such as interleukin-2 and interferon, blood proteins such as hemoglobin and Factor VIII, water-soluble plant hormones and pesticides, radionucleotides, contrast materials for radiological and NMR diagnosis, cancer cytostatics, and antibiotics. Examples of lipophilic materials which can be encapsulated include steroid hormones, pheromones, porphyrins, organic pesticides, fungicides, insect repellents, lipophilic vitamins and derivatives, alkyds, epoxy polyurethanes, fluorocarbons, and related resins. Oil based materials include an exclusive listing of additional lipophilic materials and materials which form colloids or suspensions in oil. A more complete listing of the types of pharmaceuticals that could be encapsulated in lipid vesicles is included in Gregoriadis, G., ed. Liposome Technology (CRC, Boca Raton, Fla.), Vols. 1-3 (1984).

Current US Cross Reference Classification (2):

424/450

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

[First Hit](#) [Fwd Refs](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)[Generate Collection](#)[Print](#)

L2: Entry 32 of 40

File: USPT

Apr 14, 1992

DOCUMENT-IDENTIFIER: US 5104661 A

TITLE: Reverse loading of liposomes

Detailed Description Text (6):

Thus, it is now recognized according to this invention, that a compartmentalized core volume, such as encountered in vesicles or liposomes, is not necessarily a prerequisite for effective drug delivery. Instead, these new forms of dispersed phase drug delivery platforms rely on the phenomena of adsorption, partitioning, or on specific means of covalent or non-covalent attachment of molecules to achieve the desired objective. It is stressed that target molecules, RES avoidance molecules or biological actives such as drugs, diagnostics, hormones, vitamins, pesticides, plant nutrients or growth factors, enzyme inhibitors or activators, DNA and RNA gene fragments, therapeutics in general, anticancer agents, bone active agents, sunscreen, insect repellants and perfumes, and the like, are examples which we now associate effectively with targeted lipids.

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L2: Entry 33 of 40

File: USPT

Dec 31, 1991

DOCUMENT-IDENTIFIER: US 5077057 A

TITLE: Preparation of liposome and lipid complex compositions

Brief Summary Text (8):

Liposomes have been used to encapsulate a large variety of compounds which exhibit poor aqueous solubility, or which exhibit unacceptable toxicity at therapeutic dosages. For example, amphotericin B is an anti-fungal antibiotic which is poorly soluble in water, alcohols, chloroform, and other common halocarbon solvents. While amphotericin B is an effective fungicide, it is also dangerously toxic at concentrations slightly above the therapeutic concentration. Encapsulation in liposomes appears to reduce the in vivo toxicity to mammalian cells, while leaving the fungicidal activity relatively unaltered (F.C. Szoka et al, Antimicrob Agents Chemother (1987) 31:421-29). The effects on cytotoxicity and fungicidal activity were dependent upon the particular liposome composition, liposomal structure (e.g., SUV, MLV, etc.), and method of preparation.

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L2: Entry 40 of 40

File: USPT

Nov 25, 1980

DOCUMENT-IDENTIFIER: US 4235871 A

TITLE: Method of encapsulating biologically active materials in lipid vesicles

Brief Summary Text (13):

By the method of our invention, oligolamellar lipid vesicles (synthetic liposomes) may be constructed rapidly, conveniently, under mild conditions, in high yields, and in such a manner that they incorporate a high percentage of a wide variety of biologically active material processed with them. Representative of material which may be encapsulated by the method of the invention are pharmaceutically active compounds and compositions thereof, carbohydrates, nucleotides, polynucleotides (both naturally occurring and synthetic) pesticides, including fungicides, insecticides, miticides, nematocides and molluscicides, water soluble fertilizers and agricultural nutrients, peptides, proteins, enzymes, viruses and the like. Many of these materials do not normally penetrate the plasma membrane of cells and may be inactivated in circulation within a living organism or by contact with tissue and organ cultures. In the case of pesticides and agricultural nutrients or fertilizers they may be removed from the area of application by rain or irrigation. Encapsulation of such materials protects them from inactivation or removal, i.e.; maintains bioavailability. Bacterial cells such as C. parvum and E. coli and the like may also be encapsulated by the method of the invention for protection and bioavailability.

Current US Original Classification (1):

424/450

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

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L3: Entry 22 of 27

File: USPT

May 19, 1987

DOCUMENT-IDENTIFIER: US 4666747 A

**** See image for Certificate of Correction ****

TITLE: Spray method and formulation for use therein

Detailed Description Text (13):

The wettable powders may contain additional components to those already mentioned herein. Examples of substances which may be employed in this way are free radical quenchers such as butylated hydroxy toluene and tocopherol and pheromones or other bait attractants. Again these substances are preferentially taken up in the hydrophobic domain formed by a phospholipid whether or not it contains additional non-polar material. Bait attractants have hitherto been proposed for use with viral pest control agents such as *Heliothis virescens* used in the conventional method hitherto employed. Here, the bait normally consists of a commercial cotton seed adjuvant (the product CoAX, produced by Traders Oil Mill Co., Forth Worth, Tex.) and the application is by aqueous solvents, there having been proposed for this purpose an application rate of 140 liters water/hectare and a pressure of 276 KPa achieved with CO₂ gas pressure (see J. Econ. Entomol, 76, 446-448, 1983). An advantage of the use of pheromone traps in liposome formulations embodying this invention is that the sex attractant will be released at a much more controllable rate from phospholipid bilayers, especially compared with the release rates from capillary tubes or Pheracon rubber septa impregnated with the pheromone as had been the case with all pheromone baited traps currently marketed.

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)